

(12) UK Patent Application (19) GB (11) 2 266 645 (13) A

(43) Date of printing by UK Office 03.11.1993

(21) Application No 9312028.5

(22) Date of filing 14.08.1992

(30) Priority data

(31) 783289 (32) 28.10.1991 (33) US

(86) International application data
PCT/US92/06768 En 14.08.1992

(87) International publication data
WO93/09622 En 13.05.1993

(51) INT CL⁵
H04L 27/34 5/12 23/02

(52) UK CL (Edition L)
H4P PAL PAQ

(56) Documents cited by ISA
US 4881245 A US 3550003 A US 3341776 A

(58) Field of search by ISA
US CL 375/38;39;40. 370/110.2;110.3;110.4. 455/59.
332/103. 329/304;348.

(71) Applicant
Motorola Inc

(Incorporated in the USA – Delaware)

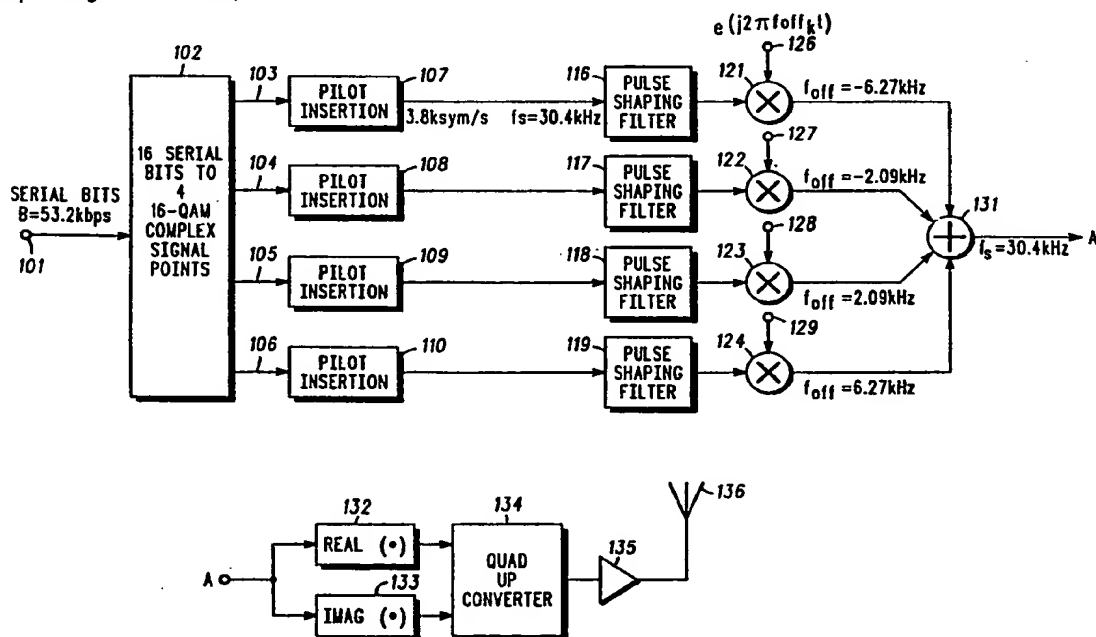
Corporate Offices, 1303 East Algonquin Road,
Schaumburg, Illinois 60196, United States of America

(72) Inventors
Steven C Jasper
Mark A Birchler
James D Solomon

(74) Agent and/or Address for Service
Hugh Christopher Dunlop
Motorola, European Intellectual Property Operation,
Jays Close, Viables Industrial Estate, Basingstoke,
Hampshire, RG22 4PD, United Kingdom

(54) Communication signal having a time domain pilot component

(57) A quad 16 QAM transmission (132–136) and reception (600) methodology wherein a time domain pilot reference is advantageously associated therewith. There may be one or more such pilot references for each packet of multiple 16 QAM pulses (200). Depending upon the embodiment, each 16 QAM pulse can include a time domain pilot reference, or an estimated pilot reference (402 and 301) for that pulse can be determined either by reference to pilot references in other pulses sharing the same packet, or by reference to pilot references for other previously received 16 QAM pulses corresponding to that same pulse.



GB 2 266 645 A